

Analysis of Word Search Method for Summarizing Local Food Security Plans in Mali

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Purpose of Presentation

Aggregate Analysis of Local Food Security Plans in Mali:

- **Is it reliable?** If so, then the plans will match local circumstances
- **Does it have value?** In other words, can it teach us anything?





What was done:

Program was used to search plans and find frequencies of keywords

Strengths: Fast & Aggregate

Weaknesses: Vague & Non-Conclusive

- Can only search 1 word
 - ie. 'banque,' NOT 'banque de cereal'
- May pick up other words
 - ie. 'mil' will also find 'million,' ...etc.
- Can not determine context easily

Translation of Words Searched

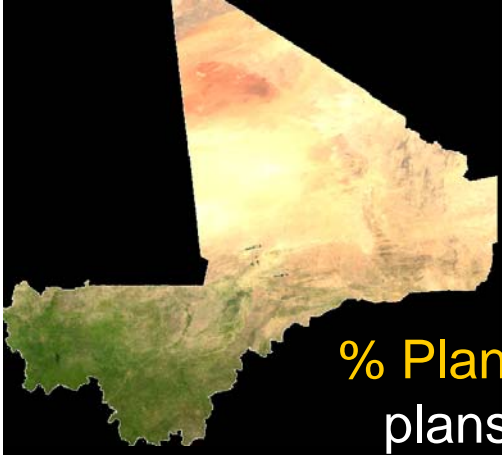
Rough Translation into English:

- Mil (Millet)
- Riz (Rice)
- Sorgho (Sorghum)
- Bétail (Cattle/Livestock)
- Élevage (Livestock)
- Engrais (Fertilizer)
- Intrans (Input/Fertilizer)
- Artisan (Artisan/Craftsman)
- Banque (Bank)
- Coopérative (Cooperative)
- "Irrig" can refer to either Irrigue or Irrigation (Irrigated or Irrigation)
- Nutrition (Nutrition)
- Radio (Radio)
- Tourisme (Tourism)



Data Output from “PDF Search Assistant”

Name	Riz	Dummy	Betail	Dummy
DISTRICT KIDAL				
kidal_abelbara_abelbara	0	0	14	1
kidal_abelbara_boghassa	0	0	15	1
kidal_abelbara_tinwatene	0	0	15	1
kidal_kidal_aneff	1	1	16	1
kidal_kidal_essouk	0	0	18	1
kidal_kidal_kidal	2	1	13	1
kidal_tessalit_adjel-hoc	0	0	7	1
kidal_tessalit_tessalit	0	0	8	1
kidal_tessalit_timtaghene	0	0	8	1
kidal_tin-essako_intedjedit	0	0	12	1
kidal_tin-essako_tin-essako	0	0	15	1
TOTAL:	3	2	141	11
Avg Hits If Mentioned or % Mentioned:	1.50	0.18	12.82	1.00



How are the final results measured?

% Plans: The percentage of local plans that mention the keyword at least once.

Avg / Plan: Of those plans that mention the keyword at least once, the average amount of times the keyword was used.

Country
Level Data:
Crops and
Livestock



<u>Word</u>	<u>% Plans</u>	<u>Avg / Plan</u>
Mil	96%	5.76
Riz	74%	3.51
Sorgho	74%	2.46
Bétail	73%	5.14
Élevage	97%	4.47
B or E	99%	8.19
Engrais	27%	3.39
Intrant	60%	3.53
E or I	67%	4.55

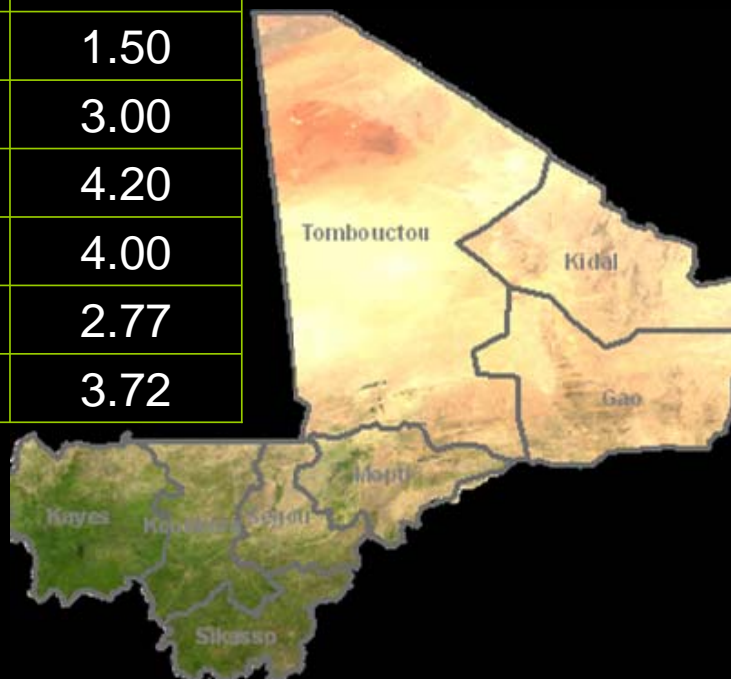
Country
Level Data:
Other Words of
Interest



<u>Word</u>	<u>% Plans</u>	<u>Avg / Plan</u>
Artisan	83%	3.78
Banque	95%	7.78
Coopérative	52%	5.08
“Irrig”	23%	2.87
Nutrition	58%	4.09
Radio	48%	2.80
Tourisme	21%	1.61

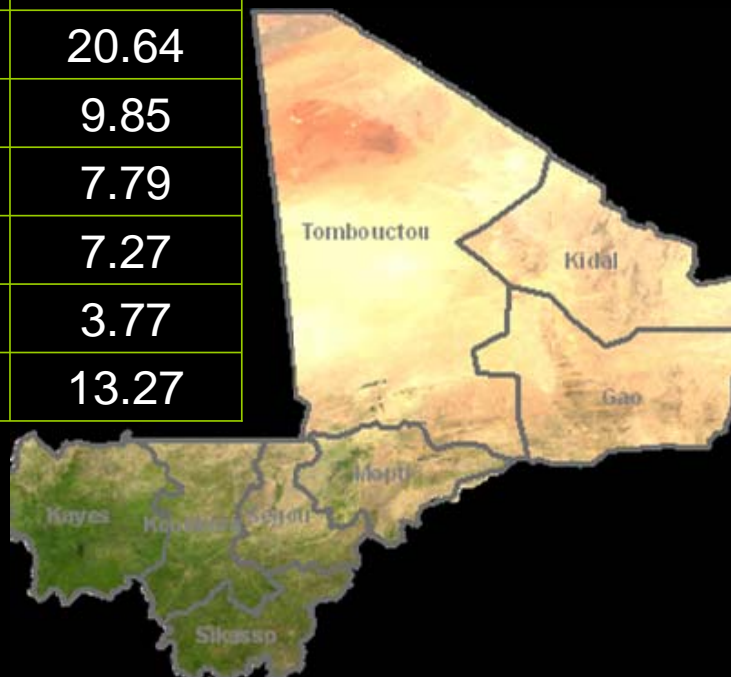
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	63%	4.60
Kayes	63%	3.41
Kidal	18%	1.50
Koulikoro	64%	3.00
Mopti	84%	4.20
Segou	85%	4.00
Sikasso	83%	2.77
Tombou.	62%	3.72

Riz



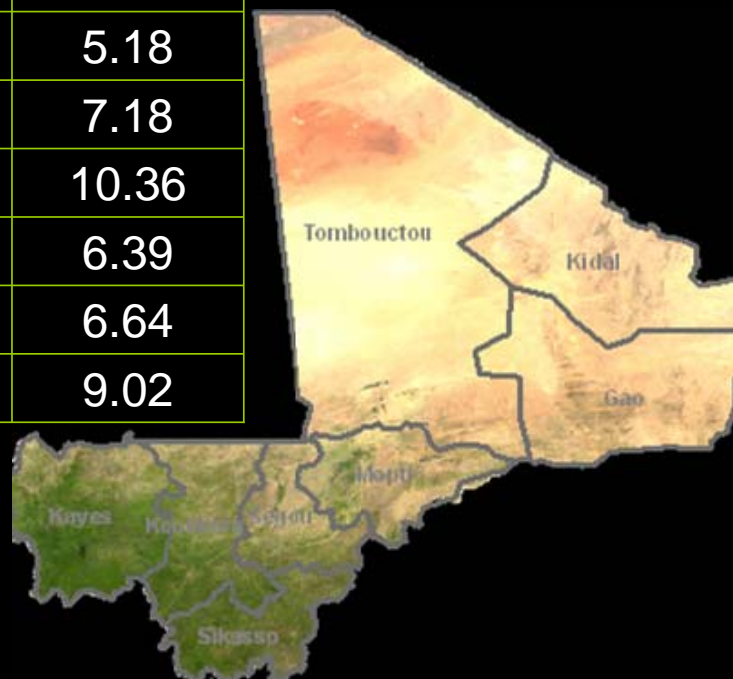
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	100%	11.83
Kayes	100%	8.79
Kidal	100%	20.64
Koulikoro	100%	9.85
Mopti	100%	7.79
Segou	100%	7.27
Sikasso	93%	3.77
Tombou.	100%	13.27

Bétail ou Élevage



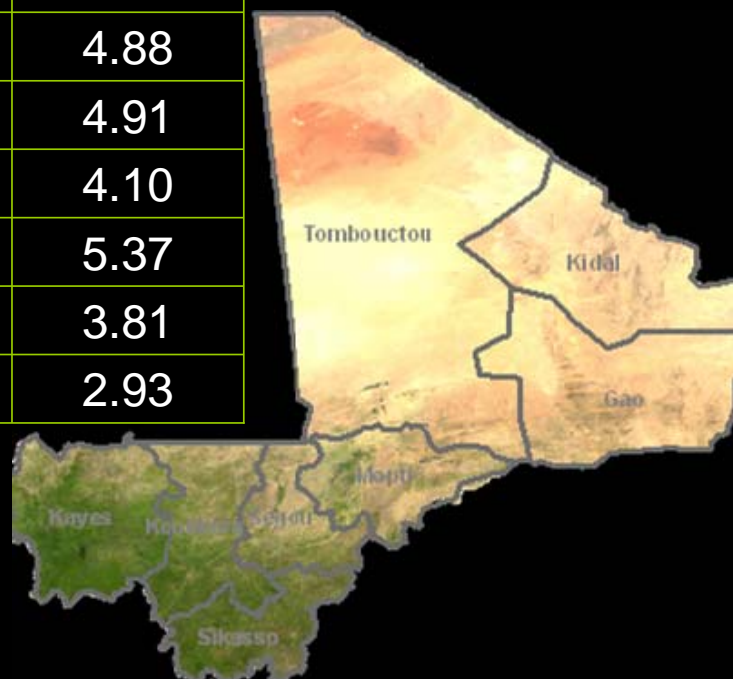
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	100%	5.38
Kayes	100%	8.70
Kidal	100%	5.18
Koulikoro	100%	7.18
Mopti	97%	10.36
Segou	83%	6.39
Sikasso	97%	6.64
Tombou.	90%	9.02

Banque



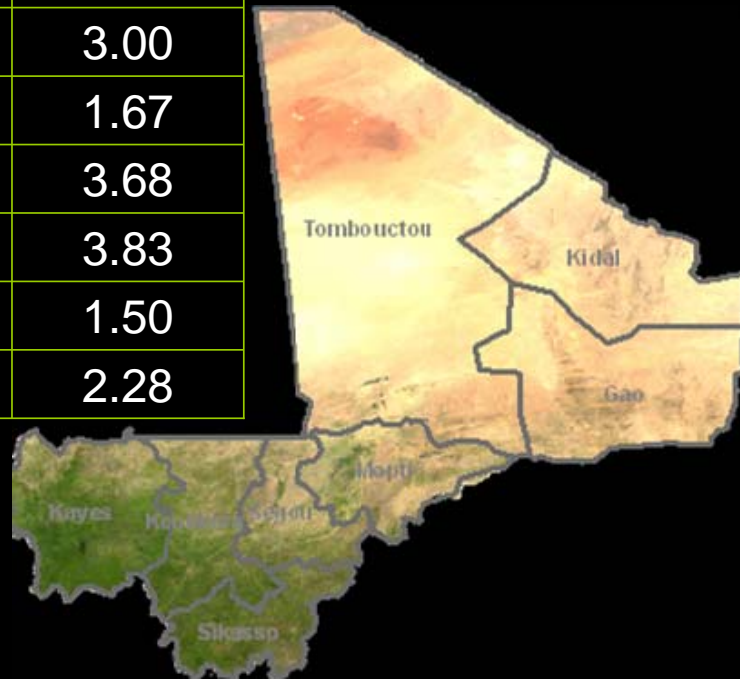
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	50%	3.50
Kayes	46%	9.07
Kidal	73%	4.88
Koulikoro	73%	4.91
Mopti	48%	4.10
Segou	37%	5.37
Sikasso	52%	3.81
Tombou.	58%	2.93

Coopérative



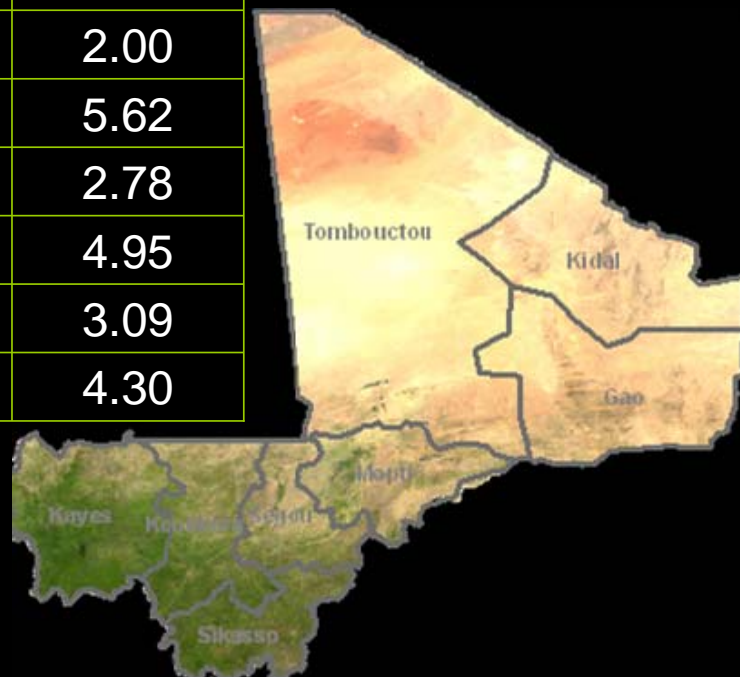
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	38%	1.33
Kayes	24%	2.57
Kidal	9%	3.00
Koulikoro	14%	1.67
Mopti	29%	3.68
Segou	34%	3.83
Sikasso	4%	1.50
Tombou.	48%	2.28

“Irrig” -ue or -ation



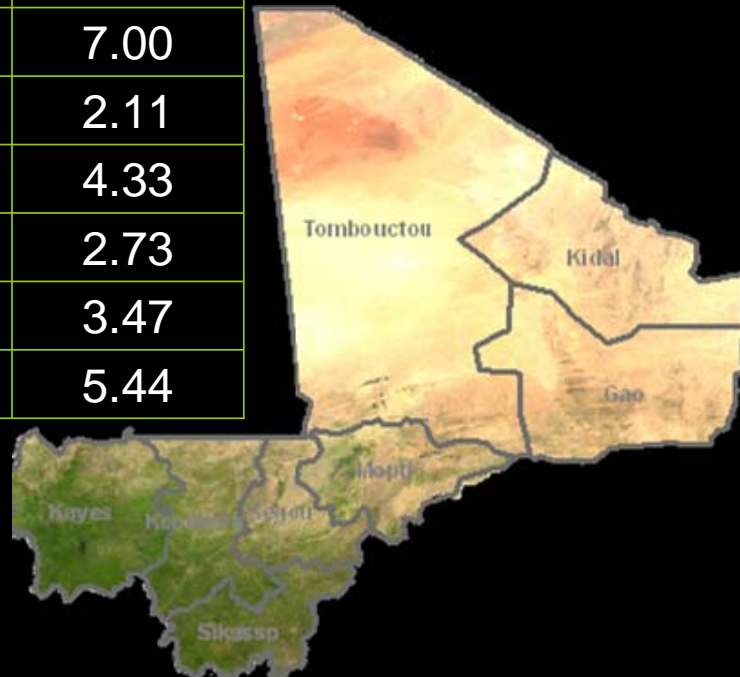
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	83%	3.20
Kayes	73%	6.58
Kidal	9%	2.00
Koulikoro	70%	5.62
Mopti	47%	2.78
Segou	65%	4.95
Sikasso	80%	3.09
Tombou.	63%	4.30

Intrant ou Entrais



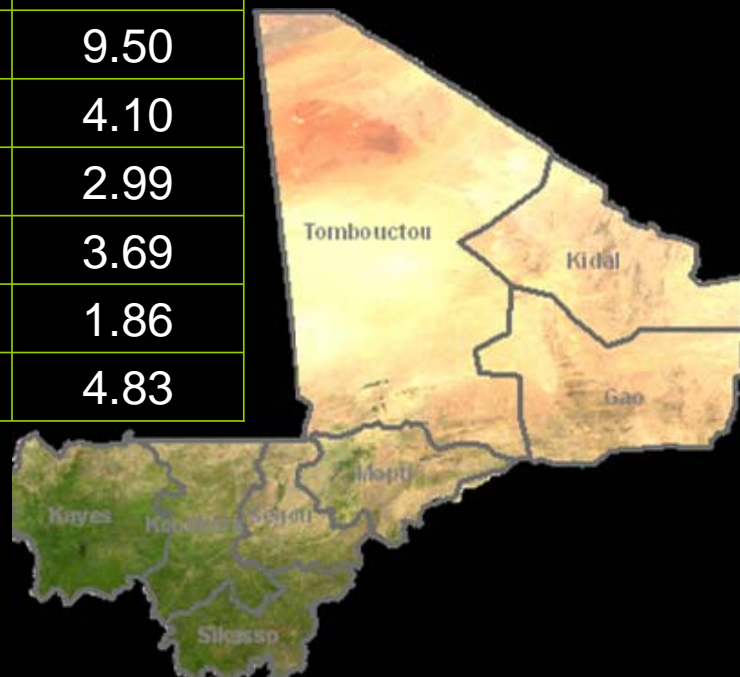
<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	100%	6.42
Kayes	62%	5.37
Kidal	27%	7.00
Koulikoro	44%	2.11
Mopti	51%	4.33
Segou	61%	2.73
Sikasso	55%	3.47
Tombou.	83%	5.44

Nutrition



<u>District</u>	<u>% Plans</u>	<u>Avg/Plan</u>
Gao	100%	6.04
Kayes	90%	4.18
Kidal	91%	9.50
Koulikoro	91%	4.10
Mopti	94%	2.99
Segou	87%	3.69
Sikasso	53%	1.86
Tombou.	90%	4.83

Artisan





Conclusions

Aggregate Analysis of Local Food Security Plans in Mali:

- **Is it reliable?** Yes, if grouped correctly
- **Does it have value?** Yes, it can.

Thus, more thorough analysis will yield even more reliable and valuable results.

Thank you!

Any Questions or Comments?

Do you also think that this could be a valuable policy tool?

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